

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Thomas James McARTHUR

Confirmation No.: 2136

Appl. No.: 10/521,380

Examiner: Patricia A. Leith

Filed: January 6, 2006

Art Unit: 1655

Title: FRUIT AND/OR VEGETABLE DERIVED COMPOSITION

PURSUANT TO 37 C.F.R § 1.132

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Commissioner:

- I, R. Neal Peterson., declare as follows:
- 1. I am founder in 1988 of the PawPaw Foundation, a 501c3 nonprofit organization devoted to the advancement of the North American Pawpaw Asimina triloba as a new fruit crop for the United States and other humid temperate regions of the world. I am its current president since 2008. I am also founder and manager of Peterson Pawpaws LLC, based in Harper's Ferry, West Virginia, a commercial enterprise involved in the production, sale and promotion exclusively of Pawpaw Asimina species trees and fruit. I have held this position since January 1999. (See www.petersonpawpaws.com)
- 2. I have a Master's degree in Plant Genetics from West Virginia University (1976) and a doctoral education in Agricultural Economics from Michigan State University (ABD). Prior to my current position, I was employed as an Agricultural Economist with the USDA-Economic Research

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Service from 1980 to 1998. Currently, I have ongoing cooperative research projects with other experts on Pawpaw Asimina species, including with Dr. Kirk W. Pomper, curator of the USDA National Clonal Germplasm Repository for Asimina species, Kentucky State University, the largest Asimina species germplasm collection in the world. I also lecture to groups about the importance and benefits of Pawpaw Asimina triloba. I was awarded the Betsy Lydon Ark Award in 2006 from Slow Food USA for my work with Pawpaw Asimina triloba, an honor given to a leader determined to promote and preserve traditional foods and sustainable agricultural practices. I have been studying pawpaw Asimina species since 1975. I am the named inventor on three issued U.S. plant patents directed to Asimina pawpaw species: PP14,452, PP14,453, and PP15,900 (Classified in Class/Subclass PLT/156). These are the only U.S. plant patents directed to an Asimina pawpaw species that I am aware of.

3. The origin of the term "pawpaw" for Asimina species is unknown, though some believe the term may have originated in the early 17th Century with John Smith's founding of Jamestown Virginia where the settlers may have thought the unknown fruit of Asimina was a Carica species, which was known to the Spanish and the English in Cuba and the Caribbean islands at that time. Pawpaw Asimina species are unique in that they are the only temperate members of the Annonacaea family, and no other members of the Annonacaea family have been called "pawpaw". Further, Pawpaw Asimina species require approximately 400 hours of chilling to break dormancy, and thus will not easily grow in sub-tropical zones (e.g., near the Gulf of Mexico) where extended cold periods are rare or non-existent. Pawpaw Asimina species are gradually being introduced outside the United States as a specialized crop. Some very limited domesticated planting of Pawpaw Asimina species has occurred only recently in other temperate areas outside of North America, such as, for example, in Italy, Germany, Australia Japan and China.

- 4. In my experience, the term "pawpaw" and its variant spellings "paw paw" and "papaw" are commonly used outside of the United States to refer to the common tropical Carica species, such as Carica papaya. In the United States, Carica papaya is commonly referred to as "Papaya". However, outside the United States, Carica papaya is commonly referred to as "Pawpaw" in the English speaking world. Horticulturally and commercially, Carica species are much more common worldwide than Asimina species. Carica species are common in tropical and sub-tropical geographic zones worldwide, and probably were originally native to Central America. In contrast, Asimina species are native to temperate forests of eastern and southern United States, and cannot grow in tropical regions and only grow in sub-tropical regions with special care. Accordingly, Pawpaw Carica species will not be found growing in the same locales as the Pawpaw Asimina species.
- 5. For these reasons, vast commercial differences exist in the worldwide production of Carica species as compared to Asimina species. Due to the widespread distribution and popularity of pawpaw Carica species across the world's tropical and sub-tropical zones, commercial availability of pawpaw Carica fruit can be attained virtually year round. Moreover, worldwide commercial production of Carica fruit is in the millions of metric tons and encompasses a diverse array of tropical and sub-tropical cultures and countries. In contrast, commercial production and sale of Asimina pawpaw fruit or processed fruit is not widely available, being largely found at farmers' markets in select cities and towns of eastern and southern United States during its short fruiting season of late August to early October. Some large US specialty food distributors, such as Earthly Delights and Heritage Foods USA, are beginning to make Asimina pawpaw fruit available on a seasonal basis.
- 6. In general, I have commonly found that many English-speakers residing outside of North America are not aware that Asimina "pawpaw" species native to temperate North American even

exist, let alone that the term "pawpaw" can refer to such species. I often receive correspondence from English-speakers residing outside of North America who use the term "pawpaw" solely to refer to Carica species. For example, I commonly receive e-mail or letters from persons in tropical or subtropical zones outside of the United States who are contacting Peterson Pawpaws to obtain information about "pawpaws" or to purchase "pawpaw" trees. However, with most of these inquiries from tropical areas, the correspondents are inquiring about Carica species. In these instances, the correspondents are clearly using the term "pawpaw" solely to refer to Carica species, and appear to be totally unaware that the term "pawpaw" is commonly used in the United States to refer to the unrelated North American Asimina species. In general, it is my experience that among English-speakers residing outside of North America, the use of the term "pawpaw" is commonly used to clearly and definitely refer to the Carica pawpaw species. Similarly, it is also my general experience that non-American English-speakers residing in tropical and sub-tropical regions are commonly not aware that the term "pawpaw" can be used in the United States to refer to the less common temperate North American Asimina species.

7. The fruit of Asimina "pawpaw" species is only consumed by people when the fruit is ripe because the unripe fruit of Asimina is wholly unpalatable. In contrast, I understand that the Carica "pawpaw" fruit is commonly used as food both in its unripe "green" form and in its ripe form. For example, the Biriani rice recipe from coastal Kenya found at http://nutford.kijabe.org/recipes.html refers to the use of "unripe" "pawpaw" which in my opinion can only be referring to the Carica "pawpaw" species. A copy is attached to the Appendix herewith. The term "pawpaw" used in the recipe would not be confused with the Asimina "pawpaw" species because (1) the recipe originates from the tropical coastal region of Kenya which commonly uses the British English term "pawpaw" only to refer to Carica species; (2) Asimina species do not exist in Kenya; (3) in my experience, persons from tropical regions of Africa are generally not aware of Asimina "pawpaw" species; and (4) persons

familiar with using and cooking Asimina fruit would not suggest cooking unripe Asimina "pawpaw" fruit. Accordingly, this African recipe is consistent with my understanding that the term "pawpaw" is widely recognized by non-American English speakers around the world as the common term for clearly and definitely describing Carica species.

- 8. I have reviewed the UN FAO INPHO Compendium Chapter XXII entitled "Pawpaw". This chapter begins at http://www.fao.org/inpho/content/compend/text/CH22_01.htm. The term "Pawpaw" is used throughout the text, Tables, and Figure Legends to refer to Carica species. This UN report is consistent with my understanding that the term "pawpaw" is widely recognized by non-American English speakers around the world as the common term for clearly and definitely describing Carica species.
- 9. I have reviewed the "pawpaw" information sheet published by The Royal Botanic Gardens (Kew Gardens) of Great Britain which provides information sheets on numerous plants at their website. The Royal Botanic Gardens, the central botanical authority of Great Britain and the British Commonwealth, uses the term "pawpaw" in its hyperlink and throughout its published pawpaw information sheet found at http://www.kew.org/ksheets/pawpaw.html to refer to the Carica species. A copy is attached to the Appendix herewith. This pawpaw information sheet issued by the central botanical authority of Great Britain and the British Commonwealth, is consistent with my understanding that the term "pawpaw" is widely recognized by non-American English speakers, in particular British English speakers, in both temperate and tropical regions around the world, as the common term for clearly and definitely describing Carica species.
- 10. Horticultural experts specializing in Asimina pawpaw species understand that the term "pawpaw" is widely used outside of the United States to commonly, clearly, and definitely refer to

Carica pawpaw species throughout the tropical and sub-tropical regions of the English speaking world.

These horticultural experts also recognize that they cannot change the common parlance of millions of English speakers.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

14 april 2010

R. Neal Peterson
Founder & Manager

Peterson Pawpaws LLC